

The Raleigh Amateur Radio Society's **EXCITER**



RARS EVENTS:

- The RARS General Membership meeting is the 1st Tuesday of the month.
- The RARS net meets every night @ 8 PM on 146.640.
- The RARS Technical & Trader's net is Saturdays @ 8:30 PM or following the RARS net.
- RARS meets for a monthly dinner on the 2nd Tuesday of each month.

Selene Montgomery KG4RMT, RARS President President's Corner

The biggest event on the RARS Calendar will soon be here: RARSFest 2009 on Saturday, April 11. All of the usual activities you expect to find at a hamfest will be taking place, and RARS needs your help to ensure another successful outcome. Visit the RARSFest page on the RARS website (www.rars.org) for volunteer opportunities. Join us for the social on the evening of Friday, April 10 and bring a covered dish to add to the table as we thank the dealers and vendors who make the effort to come to RARSFest. Work the subject of RARSFest into your conversations so everyone will know about it!

Public service opportunities are also plentiful. Amateur radio is a service, and helping others by aiding the various organizations that ask for our help is a great way to give back to the community. The RARS website is the place to find out how you can help.

Our club could not continue to grow and prosper without the leadership of those who volunteer to head up our many events. However, RARS' growth and prosperity also needs the help of its members to join in the efforts. Thank you for your continued support of the club's activities.

Next RARS Meeting

The next RARS meeting will be Tuesday, April 7 @ 7:30 pm in the sanctuary of the First Alliance Church on Buffaloe Road in Raleigh. The program will be an update on the upcoming 2009 RARSFest.

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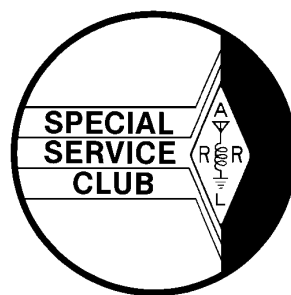


The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).



The Exciter

The *Exciter* is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The *Exciter* welcome articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor.

The views expressed in the *Exciter* are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

The Editor reserves the right to edit any and all pieces.

The submission deadline for the May *Exciter* is April 17. All submissions must be final. Drafts are not accepted.

Editor: Courtney Enzor KI4HOS (editor@rars.org)

RARS General Meeting

Date: First Tuesday of each month

Location: First Alliance Church
4400 Buffaloe Road
Raleigh, NC

Time: People begin arriving at 7 PM. The meeting officially begins at 7:30 PM.

RARS Monthly Dinner

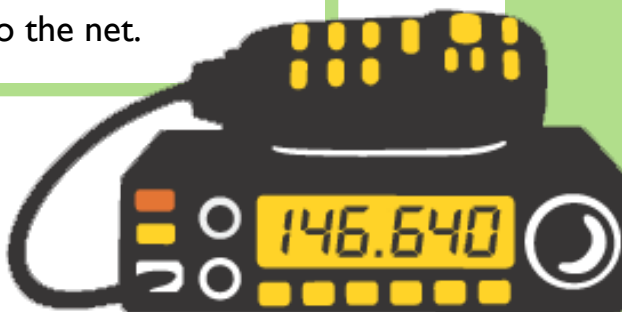
Join us on the 2nd Tuesday of each month for the RARS dinner. It's open to everyone: RARS members, non-members, friends, and family – feel free to bring your little ones! Dinner begins at 6:30 pm.

Listen to the nightly RARS net and check www.rars.org for details on the next dinner's location.

RARS Repeaters in Raleigh

145.130 (82.5 PL), 146.640, & 444.525 (82.5 PL)

Join us for the nightly RARS net @ 8 PM on the 146.640. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS member to the net.



VE TESTING

The RARS VEs will accept walk-in testing at the February, May, August, and November RARS meetings; the RARSFest in April; the Cary Swapfest in July; the JARSFest in November; and following RARS license classes.

Please bring a photo ID, your current license, a copy of your current license, your \$15 exam fee, and any CSCEs you have for credit. Visit www.rars.org for more information.

March 2009 RARS Net Reports

Checkins: 480	Special Interest Nets:
Traffic: 27/29	Checkins: 110
Minutes: 530	Minutes: 450
Sessions: 28	Sessions: 12

Upcoming Hamfests

- 4/5 18th Down East Hamfest
Kinston, NC
<http://www.downeasthamfest.org/>
- 4/11 RARSFest (ARRL NC Convention)
Raleigh, NC
<http://rars.org/hamfest/>
- 4/11 Mobile Hamfest
Mobile, AL
<http://w4iax.com/hamfest/>
- 4/18 Catawba Valley Hamfest
Morganton, NC
<http://cvhamfest.com/>

April Birthdays

Roger	KB4FEU	4/2
Raul	N1XI	4/2
Ray	K2HYD	4/2
Bob	W4TTX	4/3
Henry	WB2AGA	4/8
Larry Carringer		4/9
Dennis	NC4DK	4/10
Bob	K2QJ	4/11
Sam	KI4SED	4/11
Jim	KB4BZ	4/12
Cindy	KB8LVU	4/15
Phillip	KG4IVD	4/16
Dick	KB1HIW	4/17
Kirk	KI4RK	4/19
John	W4WWD	4/20
Glen	K1GW	4/22
Neal	N4HAF	4/23
Pete	KI4LWQ	4/23
Dave	KG4OPZ	4/24
Don	WA4AVU	4/26

Welcome to RARS!

Mel Whitaker, Jr. No License

Public Service Events

Learn more and sign up for events on www.hampublicservice.org or www.rars.org.

4/4: MS Spring Fling. A one-day training event for bicycle riders that will be participating in the MS Ride in September. We will need hams for SAGS, rest stops, and course monitors.

4/25: MS Triangle Walk. This large walk event benefits the Multiple Sclerosis (MS) Society and consists of a 1-mile, 3-mile, and 5-mile walking course starting and finishing at the RBC Center in Raleigh. We need 15-20 ham volunteers for a variety of assignments including shadows, rest stops, SAGs, and net control.

5/1: Relay for Life. A Friday afternoon event held at the Panther Creek High School in Cary. Hams are needed for event shadows during event set-up and relay preparation. Need 12-13 volunteers.

Hank Montgomery K4HM, RARS Webmaster

From the Webmaster

You may have noticed that the RARS website has been undergoing some remodeling. If you have suggestions for improvements, additions, or complaints about current content (or lack thereof), please send them to webmaster@rars.org. Please remember that this is a ham radio website – please don't make suggestions for content unrelated to ham radio or RARS.

Recent changes include the addition of member-submitted amateur radio classified ads and the ability to directly submit ham radio related news articles to the "News and Exciter" page. Any RARS member can use these features. There are instructions on the RARS Classifieds page; if you would like to post news stories, please contact me for instructions.

Please check your web browser Favorites or Shortcuts and replace any old references to "www.rtpnet.org/~rars" with "www.rars.org". The old shortcuts were appropriate before RARS.ORG became a registered domain, but many of these old links no longer work due to a recent software upgrade at rtpnet.org.

Mary Jo Littlewood K4MJL, Hamfest Social Chairman

2009 RARSFest Social

Hello out there in Radioland. The 2009 RARS Hamfest is once again upon us. In addition to buying, selling, and browsing, it is also time to eat. Yes, the annual Hamfest Social starts the festivities rolling, and this means good food, a festive environment, and great music by Larry Carrington. Come on out to the Expo Center at the State Fairgrounds on Friday evening, April 10 at 7 PM and have dinner with fellow club members, dealers, and vendors who plan to be with us on Saturday. Plan to have some good ole' hamfesting fun and lots of good food for the tummy!

As always, the dinner on Saturday night will depend in large measure on your generosity in providing side dishes of your delicious food items to help feed everyone.

The club will provide barbecue, fried chicken, slaw, hushpuppies, drinks, paper products, and utensils for the meal. We hope you will add the vegetable dishes, casseroles, salads, and desserts. There is no way to really plan for side dishes, but potluck has always worked for us. Bring your favorite dish! *(Continued on page 6)*

2009 RARSFest Social (Continued from page 5)

Store-bought items are as much appreciated as any items you make from scratch. Whatever you can contribute will be very much appreciated.

We do not have the means to keep items hot or cold, so please package food with this in mind. Please bring food items to the Exposition Center by 6:15 PM on April 10. Throwaway containers would be best since getting reusable containers back to owners is difficult.

Club members and their families have always been generous in their support of the hamfest social. Thanks so much for your help in continuing this tradition.

Virginia Enzor NC4VA, RARS Education Director **Ham Radio Class**

Have you ever had an interest in amateur radio? Want to talk to folks around the world? Want to assist with communications during an emergency? Want to help with public service events? Like to talk and make new friends? Then ham radio may be for you!

A class to prepare interested folks for the Technician Class License (entry level) will be held this spring, taught by an instructor from the Raleigh Amateur Radio Society (RARS) and hosted by First Alliance Church in Raleigh! This 2-part class will prepare participants for the FCC exam. The exam will be administered at the end of the last class session. The class is open to the public. Details follow:

Dates: Saturday, April 25, 8:30 am – 12:30 pm
Saturday, May 9, 8:30 am – 12:30 pm; Exam at 1:30 pm

Place: First Alliance Church (4400 Buffaloe Road in Raleigh)

Instructor: Mike Murphy WA4BPJ, Raleigh Amateur Radio Society

Cost: \$25.00 for the class (includes manual) and \$15.00 for the exam fee

To learn more about ham radio, please visit the following website: www.arrl.org. All participation is by pre-registration. To register for this class, please contact RARS Education Director Virginia Enzor NC4VA at nc4va@nc.rr.com or (919) 469-8555 by Wednesday, April 22. She will be happy to answer any questions you may have about the class, licensing, ham radio or radios. If you wish to receive your manual prior to the class, please email Virginia to see what arrangements can be made.

Brian Young KA9QJT, 2009 Odyssey of the Mind Public Service Coordinator

Another Ham Odyssey

Question: What do balsa wood, vehicle design, “smart” mechanical creatures, and funny costumes all have in common?

They were all seen at the 2009 Eastern Region Odyssey of the Mind tournament held Saturday, March 7 at Chapel Hill High School and Smith Middle School.

The Odyssey of the Mind (OM) encourages student teams to tackle challenging problems (often technical in nature) and then present their solutions in the form of a theatrical presentation, complete with props and costumes. Some of you who have asked me about this tournament before have heard me say it combines both left- and right-brain thinking into one activity. It’s very cool, but I have to admit that for the left-brained types (like me), it’s sometimes hard to grasp the theatrical aspect of this competition.

Here’s a description of Problem I, which was sponsored by NASA:

This problem requires teams to design and build a small vehicle that will visit four locations. The locations will be different places within one or more team-determined environments. Each time the vehicle leaves a location it will look different in appearance, and after leaving one of the locations it will appear to be a group of vehicles that are traveling together. The team’s performance will incorporate the visits to the locations, the environments, and the changes in appearance of the vehicle.

Teams entering this problem are not allowed to spend more than \$145. It gets you thinking, doesn’t it?

Every year the regional tournament is held to determine which student teams move on to the state tournament. State finals are being held on April 4 at Wingate University near Charlotte. Over 160 teams took part in this year’s Eastern Regional tournament and the local ham community was called upon to provide tournament communications with shadows and stationary positions at the different problem venues.

(Continued on page 8)

Another Ham Odyssey (Continued from page 7)

I'm happy to say that sixteen hams volunteered to help with this event! With the unbelievably nice weather on the 7, it seemed like this year's tournament went even better than last year's. A lot of the credit goes to the OM staff as they work year round to prepare for the tournament and things noticeably improve every year. The OM staff was very complimentary again this year of the help the hams provided as it makes the event run a little smoother.

It's never too early to begin thinking about next year's tournament. For more information on the Odyssey of the Mind, check out www.odysseyofthemind.com and www.ncome.org.

To the fifteen hams that helped me with this year's event: Thank you and I look forward to working with you again next year.



Clockwise from top left: This year's volunteers (minus Kevin Miller KJ4BYG who was shadowing himself in the score room). John Snellen AI4RT manning the Net Control station. Mike Schinsky WV5I busy at the High School Information Desk. Tournament Director Ron Reichen with his shadow Phil Cunningham AE4PC and John Snellen AI4RT. Bill McClymont W1REP taking a breather from Problem 3 "The Lost Labor of Heracles."

Minutes by John Snellen AI4RT, RARS Secretary

February 17, 2009 RARS Board Meeting

The Raleigh Amateur Radio Society Board of Directors met on Tuesday, February 17, 2009 at the Triangle Radio Reading Service on Six Forks Road, Raleigh. The following members and guests were present: Selene KG4RMT, Hank K4HM, Gary KN4AQ, Chuck K4HF, Karl W4CHX, John AI4RT, David KF4VXJ, and Charles WB4DCM.

President Selene KG4RMT called the meeting to order at 7:11 PM. The minutes of the last Board meeting were approved as corrected.

VP Karl W4CHX advised that there was not an April meeting program as yet. There was discussion about having some time devoted to the RARSFest and possibly other items. For May, Bill K4CIA will do a program on QSL'ing entitled, "QSL: It's all in the Cards." For June, Allen AB4OZ and Clyde WB2EYC will do a program on amateur radio grounding techniques. Other possible programs include Skywarn, APRS, and programming HTs. For snacks, he has expended funds for supplies that can be used over a period of months.

Treasurer Greg KE4PAX was not present. However, an earlier treasurer's report indicated that we have 256 members. A donation to AMSAT has been made and our SERA dues have been paid.

Committee Reports

- Webmaster Hank K4HM advised that the RARSFest items are up to date. He is working on a "swap page" for members to advertise items for sell or trade. Currently, there is a single password for all members to use to access the members only section of the web. Hank is working on having individual member ID's and passwords.
- VE testing was held at our last meeting. The next scheduled testing will be at our May meeting.
Public Service Chair John AI4RT indicated that the MS Walk will be on April 25 at the RBC Center. Odyssey of the Mind continues signup.
- Hamfest Chair John AI4RT stated that all team head slots have been filled except for contest. Youth Lounge will be headed by Steve Jenkins. Stage set up may be an issue. The next hamfest meeting is set for February 23.
- Awards Chair Chuck K4HF advised that all plaques and certificates will be ready for the March meeting.

(Continued on page 10)

February 17, 2009 RARS Board Meeting (Continued)

- FM Repeater Chair Gary KN4AQ stated that the incorrect repeater filter has been returned and is awaiting the correct item. The delay was in getting the manufacturer to acknowledge that an error has been made.
- Public Information Gary KN4AQ was at the Legislature today. There was a bill to prohibit cell phone use for vehicles in motion and he wanted to be sure that it did not by default include amateur radio. A specific exemption for amateur radio was included. The exemption in Senate Bill 12 is not expected to pass. House Bill 68 is still in the works.

VP Karl raised the issue of sound and video equipment at the meetings. Who is responsible? Therein followed some discussion about the technical expertise of the amateur radio community. Bottom line is that others will take care of the sound/video requirements at a meeting.

Old Business

- Board of Directors meetings start time. There was discussion about starting at 7:00 PM or 7:30 PM. Final vote was to begin at 7:00 PM.
- An issue of raising the audio level for those folks that talk soft was discussed. The 146.88 repeater has some AGC to raise the level of audio for soft talkers. The consensus was that 64 users should close-talk their mike.

New Business

- The 146.64 repeater controller has limited vocabulary for making announcements. There is software available for about \$20 to operate a dedicated equipment to make recorded announcements at timed intervals. Mike KB7NLA has indicated that he would develop an announcement generator. Gary made a motion that we expend up to \$25 for the project. The motion was seconded by Hank and passed by voice vote.

Board Member Comments

- Gary KN4AQ advised that there would be a balloon launch from North Wilkesboro on February 27. The balloon is expected to go about 200 miles and land somewhere between Raleigh and Rocky Mount. Amateurs with APRS capability are needed to help track the balloon
- Hank K4HM brought up the subject of repeater protocols. He suggested that perhaps we needed a brochure or program. It is supposed to be on the web. The club sends out the info when a new member comes on.

(Continued on page 11)

February 17, 2009 RARS Board Meeting (Continued)

- John AI4RT advised that he needed some head phones for the special events station and now has a “bunch” probably left over from our Morse code training classes. The excess headphones will be placed on the RARSFest RARS table for sale.

Meeting adjourned at 8:53 PM.

Minutes by John Snellen AI4RT, RARS Secretary

March 3, 2009 RARS General Membership Meeting

The Raleigh Amateur Radio Society held its monthly meeting on Tuesday, March 3, 2009 at the First Alliance Church, Raleigh, NC. There were 62 members and guests present for the 40 birthday of RARS! It was also awards night.

President Selene KG4RMT called the meeting to order at 7:42 PM. She welcomed everyone to the meeting and to RARS's 40 birthday. There were no charter members present, but one life member was present. Everyone was reminded to sign in. We had one guest, Melvin Whitaker.

At the request of the President, the Secretary read the minutes of the last meeting. The minutes were approved as corrected.

Treasurer Greg KE4PAX gave his report. RARS now has 257 members.

President Selene made the following announcements:

- The regularly scheduled RARS diner will be on Tuesday, March 10 at 6:30 PM at the Golden Corral on Glenwood Ave. Members and guests are welcome.
- The Board meeting will be held on Tuesday, March 17 at the Triangle Radio Reading Service on Six Forks Rd. All members are invited to attend.
- Those interested in going to supper will gather after the meeting.
- The Charlotte Hamfest will be on March 14 & 15 in Concord.
- The Kinston “Down East” hamfest will be on April 5.
- The RARSFest will be on Saturday, April 11. Tickets and tables are available tonight.

Committee Reports

- Virginia NC4VA Education Director advised that the General Class upgrade class has concluded. Nine of the students who took the exam passed and she announced their names. There will be a Technician Class on April 25 and May 9. Mike Murphy will be the instructor. Cost is \$25 which includes the study manual plus \$14 for the exam.

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March 3, 2009 RARS General Meeting (Continued)

- Virginia NC4VA SKYWARN Coordinator advised that Brandon Dunston will give a presentation tonight on the 146.88 repeater. The subject will wind and hail. The time will be 9:15 or after the PCTN.
- President Selene announced that there will be a spotter training class on Monday, April 6.
- John AI4RT Public Service advised that the Odyssey of the Mind will be held on March 7 and that he actually had sufficient help! On April 4 will be the MS Spring Fling in Durham. The MS Walk will be held at the RBC Center on April 25 and the Relay for Life will be May 1.
- John AI4RT Hamfest Chair introduced his committee and each committee person made a few comments. John announced that a volunteer sign up sheet is being circulated. Please help.
- Bob NC4RW announced that there would be VE testing at the New Hill Volunteer Fire Department on Saturday, March 7.

The next major part of the meeting was Awards Presentations. President Selene thanked Chuck K4HF, who was unable to attend, for his work on the committee. She also thanked Ken KI4OTO and John AI4RT for their help.

Below are listed the people who received awards:

- Jeff AC4ZO, George WA4EKJ, Jack N6UYB, Gary KN4AQ, and Dick KD4ISC for their work on the ARISS project.
- Al KE4IHX for work at the Red Cross station at the NC State Fair Grounds.
- Jim KB4BZ for his work at the Red Cross station at the NC State Fair Grounds.
- Kathy Allen as the NC State Fair Red Cross Coordinator.
- Carl K4LNX for work on public service events in the region.
- Bernard W4BRB for RARSFest set up.
- Cyndi KD4ACW for RARSFest information booth for many years.
- Bernie WA4MOK for his work as ARRL NC Section Emergency Coordinator.
- John N4YRD for Emergency Shelter radio at Six Forks LDS Stakehouse.
- Rick KB4TKQ for his work as VP of RARS 2007 and 2008.
- Neal N4HAF for being Field Day chair from 2002 to 2008.
- Hank K4HM for being Hamfest chair for several years
- Dave W4DNA for his contribution as ARRL NC Section Traffic Coordinator.
- Virginia NC4VA for the outstanding job as RARS Education Director.

President Selene asked that all persons that had volunteered for a public service project this past year to please stand. Next she asked all those who had served as net control or who had ever taken the traffic handling course to please stand.

(Continued on page 13)

March 3, 2009 RARS General Meeting (Continued)

The door prize was a manual on Low Band DX'ing. It was won by our visitor, Melvin Whitaker.

VP Karl W4CHX introduced our guest speaker for the evening, Charles Durst NC4CD who will make a presentation on towers.

Charles NC4CD began by providing some basic statistics about towers. The Rohm 25 has a 12 inch base while the WRAL-TV tower in Auburn has a 15 foot base. The anchors/guy wires go out about 75-80% of the tower height. A 140 foot tower requires one acre of land and a 200 foot tower requires 2 acres. A self supporting tower requires less land to install but is much more expensive. Then there are monopoles. They are hollow tubes that can go up to 300 feet or less. There are several techniques for hiding towers. They can be made to look like pine trees, cactus or palm trees. The last two are not used that much in NC. Or, towers can be bell towers, church steeples or flag poles. Then of course, they can be roof mounted.

Video was then shown to us about towers. The first segment was about the removal and replacement of a 180 foot tower in Hillsborough. Then there was the video of the lightning striking around that tower. COOL. When an old tower is brought down, they cut the guys and let the top half drop and the bottom half. To erect a monopole, you need a hole 7 feet in diameter and 30 feet deep. Then fill it with cement. That takes about 50 yards of cement.

In 1989 an ice storm left a large amount of ice on the guys of the WRAL-TV tower and the WTVD-TV tower in Auburn (Garner). The next day, the sun came up and melted the ice on the east side of the guys causing a misbalance and down came the towers.

Tower rental is not cheap. About \$1 per foot of elevation per month. Thus the rental on our tower space for 146.64 would be about \$250 per month! Painting a tower is "simple:" put on rubber gloves and then put fuzzy gloves over that. Just dip your hand in the paint and rub it around as you come down the tower. Be sure not to fall. Thus it is very labor intensive and costly. Putting up strobe lights is faster and cheaper.

Thanks to Charles NC4CD for an interesting and entertaining program.

President Selene announced that the next meeting would be on April 6. The meeting was adjourned at 9:25 PM.

Local Amateur Radio Nets

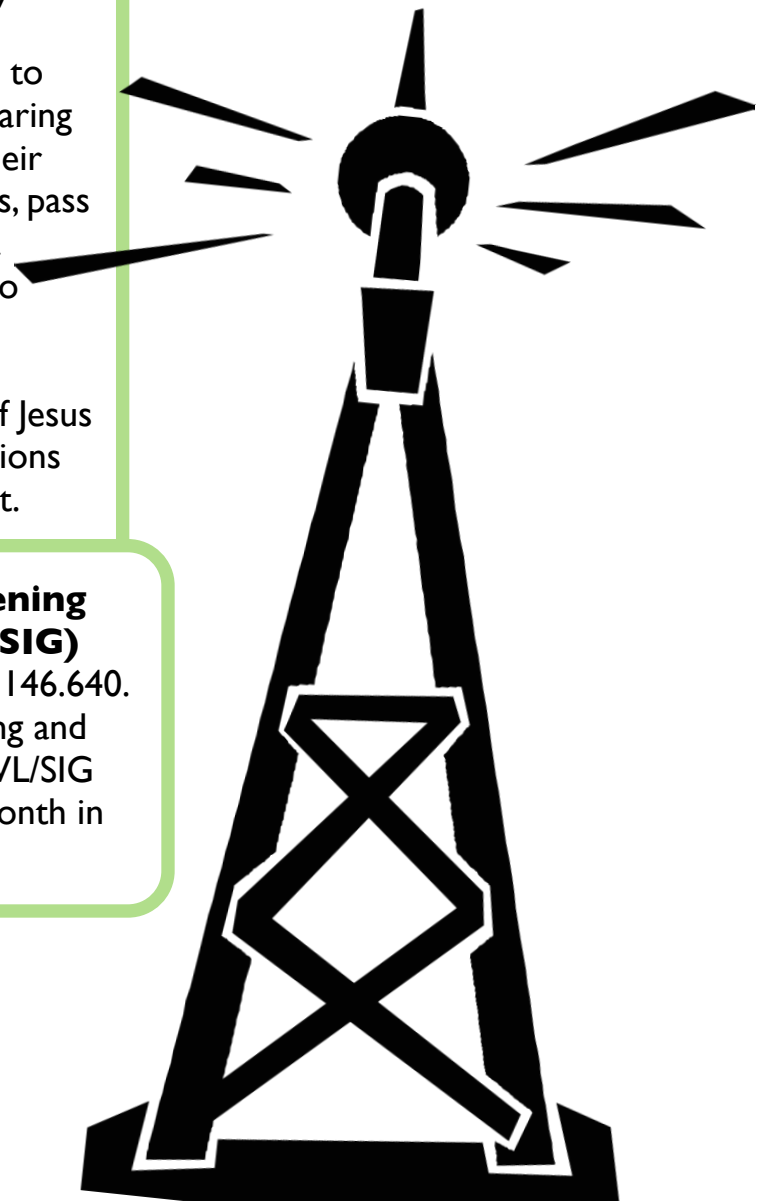
The **RARS Technical & Trader's Net** is held on Saturday evenings on the 146.640 after the 8 PM RARS net.

Apex Emergency Response Communications Net

This net meets weekly each Sunday evening @ 9 PM on the 146.640 repeater. The purpose of the net is to assist ham radio operators in preparing to respond to emergencies, test their equipment, improve operating skills, pass traffic, and to provide those with a common interest an opportunity to meet. The Apex ERC Net provides amateur radio emergency communications for The Church of Jesus Christ of Latter-Day Saints. All stations are invited to participate in this net.

Join the **Tarheel Shortwave Listening (SWL) Special Interest Group (SIG) Net** on Monday evenings @ 9 PM on 146.640. We discuss *all* areas of radio monitoring and welcome your logs! We also have a SWL/SIG meeting on the third Monday of the month in addition to our regular net.

The **VOIP Hurricane Net** is held Sundays at 00:00 UTC on the 146.775 repeater with a tone of 88.5 (IRLP node 4260). For information about activation details, go to www.voipwx.net.



Local Amateur Radio Nets

Join us every evening at 8 PM on the 146.640 repeater for the **RARS Two-Meter Net**. You can give a ragchew, check in and out (this counts for our total numbers reported to the ARRL!), make announcements, and pass traffic. We also offer National Traffic System traffic training. All licensed stations are welcome to participate in the net as often as they can. This net is also a great way to learn about amateur radio if you are newly licensed!

The **PCTN (Piedmont Costal Traffic Net)** meets every night at 9 PM on the 146.880. The purpose of the net is to handle/pass NTS formal messages. Amateur stations are encouraged to check in and participate. The backup repeater is the 147.105 (PL tone 82.5).

The **Wake County ARES Net** meets Thursdays around 2115 on the 146.880 repeater. We provide discussion and training for the implementation and provision of emergency communications for our served agencies, such as the American

Red Cross and the local and state Emergency Operations Center. Please join us. For more information, check out www.wakeares.org.

Central Carolina SKYWARN

Please join us each Tuesday @ 9:15 PM on the 146.880 repeater for the CCS net. On each net there are announcements, check-ins by county, and often a program or training spot. Check us out at www.centralcarolinaskywarn.net.

April 21: "SKYWARN Basic Spotter Training (Part 1)" with NWS Warning Coordinator Jeff Orrock KI4KKX.

April 28: "SKYWARN Basic Spotter Training (Part 2)" with NWS Warning Coordinator Jeff Orrock KI4KKX.

Please join us on the **Carolina 440 Net** every Monday night at 7:30 PM. This ragchew net utilizes the Carolina 440 UHF Link Repeater System. Comprised of the Raleigh, Down East, and Coastal Wilmington link systems, there are currently 19 repeaters on the system, covering 21,168 square miles. For a list of these repeaters, please visit www.carolina440.net.

37th Annual RARSFest Saturday, April 11, 2009

**Youth Lounge
Fox Hunt
J-Pole Building
N4C Special Event Station
VE Testing
Homebrew, QLF, & QBH**

**Forums
ARRL
SKYWARN
NTS/ARES
QCWA**

**Visit www.rars.org/hamfest/ for the latest
information. Mark your calendars today!**

The Raleigh Amateur Radio Society's

EXCITER

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